3B Series — 7.5W Wide Input DC-DC Converters

Features

- 7.5W Isolated Output
- Regulated Outputs
- 82% Efficiency
- 2:1 Input Range
- Pi Input Filter
- Low Ripple and Noise
- Continuous Short Circuit Protection

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency	Case
				No Load	Full Load		
3B-01		5 VDC	1500 mA	7.5 mA	820 mA	76	
3B-02		12 VDC	625 mA	7.5 mA	780 mA	80	
3B-03		15 VDC	500 mA	7.5 mA	780 mA	80	
3B-04	9-18 VDC	±12 VDC	±310 mA	12 mA	775 mA	80	B
3B-05		±15 VDC	±250 mA	12 mA	780 mA	80	
3B-06		±5 VDC	±750 mA	7.5 mA	820 mA	76	
3B-07		3.3 VDC	1500 mA	7.5 mA	557 mA	74	
3B-11		5 VDC	1500 mA	5 mA	400 mA	78	
3B-12		12 VDC	625 mA	5 mA	380 mA	82	
3B-13		15 VDC	500 mA	5 mA	380 mA	82	
3B-14	18-36 VDC	±12 VDC	±310 mA	7.5 mA	385 mA	81	B
3B-15		±15 VDC	±250 mA	7.5 mA	385 mA	81	
3B-16		±5 VDC	±750 mA	7.5 mA	400 mA	78	
3B-17		3.3 VDC	1500mA	5 mA	271 mA	76	
3B-21		5 VDC	1500 mA	2 mA	200 mA	78	
3B-22		12 VDC	625 mA	2 mA	192 mA	81	
3B-23		15 VDC	500 mA	2 mA	192 mA	81	
3B-24	36-72VDC	±12 VDC	±310 mA	3 mA	192 mA	81	B
3B-25		±15 VDC	±250 mA	3 mA	192 mA	81	
3B-26		±5 VDC	±750 mA	3 mA	200 mA	78	
3B-27		3.3 VDC	1500 mA	3 mA	136 mA	76	

Note: Nominal Input Voltage 12, 24, 28 or 48VDC

Specifications

Input Specifications:

Input Voltage Range……12V……..…9-18V
24V……..18-36V
48V……36-72V
Input Filter……..Pi Type

Output Specifications:

Voltage Accuracy…..……..……+/- 2.0 % max.

Voltage Balance (Dual)……...+/- 1.0 % max.
Ripple & Noise, 20 MHz BW……3.3V / 5V……. 100 mV p-p max.
12V / 15V……1 % p-p max.
Temperature Coeffcient…… +/- 0.05 % /º C max.
Short Circuit Protection……..……Continuous
Line Regulation [1] Single / Dual Output……..+/- 0.5 % max.
Load Regulation [2] Single …… ……..+/- 0.5 % max
Dual Output[3]……..……+/- 0.1 % max.

General Specifications :

Efficiency……..…...see table
Isolation Resistance……100Mohm
Switching Frequency……..100 KHz, min.
Operating Temperature Range……-25º C ~ +71º C
Case Temperature……100 º C max.
Cooling……Free air convection
Storage Temperature Range……..-40 º C ~ +100º C
Isolation Voltage……1500VDC min.
Dimensions……..2” x 1” x 0.4 “(50.8 x 25.4 x 10.2 mm)
Case Material…….Black Coated Copper with Non-conducted base

Note:

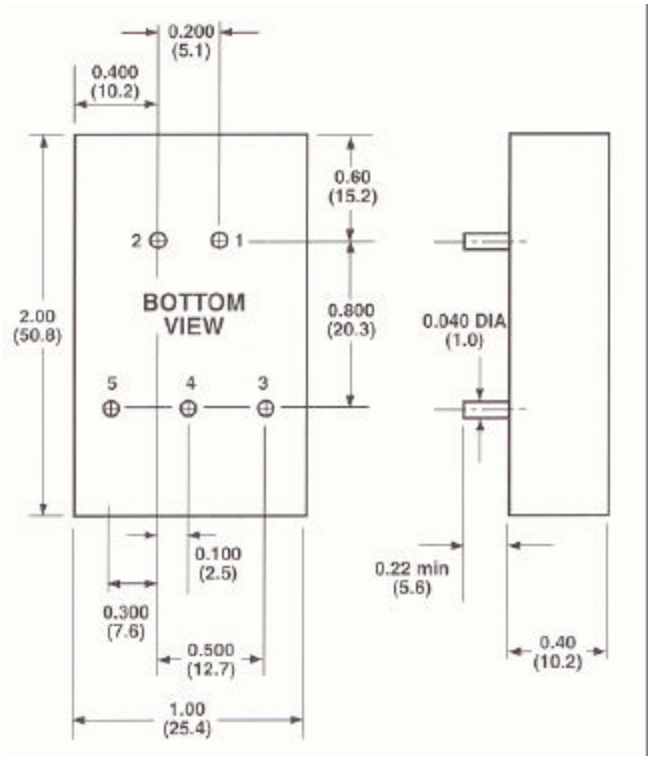
1. Measured from high line to low line;
2. Measured from full load to 10% load;
3. Measured from full load to ¼load.

Outline Information and Pin-out

PIN CONNECTION	
Pin	Function
1	+ Input
2	- Input
3	+ Output
4	Common / NP
5	- Output

* NP---No Pin

All dimensions are in inches [mm]



The information and specifications contained in this brief are believed to be accurate and reliable at the time of publication. Specifications are subject to change without notice. Refer to product specification sheet for performance characteristics and application guidelines.